

Applicant : Peter S. MacLeod  
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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Previously Presented) A method for transforming data from a source device color space to a destination device color space, wherein the source device is associated with a source device color profile and the destination device is associated with a destination device color profile, comprising:

transforming data from the source device color space to an intermediary color space associated with an intermediary color profile using the source device color profile, a source rendering intent, and the intermediary color profile, producing intermediary data, such that the source rendering intent determines a method of mapping colors from the source device color space to the intermediary color space; and

transforming the intermediary data from the intermediary color space to the destination device color space using the intermediary color profile, a destination rendering intent, and the destination device color profile, such that the destination rendering intent determines a method of mapping colors from the intermediary color space to the destination device color space.

2. (Previously Presented) The method of claim 1, wherein the source and destination rendering intents are different rendering intents.

3. (Previously Presented) The method of claim 2, wherein:  
the source device is a printing press to be emulated; and  
the destination device is a proofing printer to generate the output of the emulation.

4. (Previously Presented) The method of claim 3, further comprising:  
receiving the data as an output of a graphic arts application.

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5. (Previously Presented) The method of claim 3, wherein:  
the source rendering intent is a colorimetric rendering intent; and  
the destination rendering intent is a perceptual rendering intent.

6. (Previously Presented) The method of claim 5, wherein:  
the intermediary color profile is a CIELAB color profile or a CIEXYZ color profile.

7. (Previously Presented) The method of claim 1, wherein the source and  
destination rendering intents are the same rendering intents, further comprising:  
modifying the color components of the intermediary data such that only grayscale colors  
remain, before transforming the intermediary data.

8. (Previously Presented) An apparatus for transforming data from a source device  
color space to a destination device color space, wherein the source device is associated with a  
source device color profile and the destination device is associated with a destination device  
color profile, comprising:

means for transforming data from the source device color space to an intermediary color  
space associated with an intermediary color profile using the source device color profile, a  
source rendering intent, and the intermediary color profile, producing intermediary data, such  
that the source rendering intent determines a method of mapping colors from the source device  
color space to the intermediary color space; and

means for transforming the intermediary data from the intermediary color space to the  
destination device color space using the intermediary color profile, a destination rendering intent,  
and the destination device color profile, such that the destination rendering intent determines a  
method of mapping colors from the intermediary color space to the destination device color  
space.

9. (Previously Presented) The apparatus of claim 8, wherein the source and  
destination rendering intents are different rendering intents.

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10. (Previously Presented) The apparatus of claim 9, wherein:  
the source device is a printing press to be emulated; and  
the destination device is a proofing printer to generate the output of the emulation.

11. (Previously Presented) The apparatus of claim 10, further comprising:  
means for receiving the data as an output of a graphic arts application, the means  
operable to provide the data to the means for transforming data.

12. (Previously Presented) The apparatus of claim 11, wherein:  
the source rendering intent is a colorimetric rendering intent; and  
the destination rendering intent is a perceptual rendering intent.

13. (Previously Presented) The apparatus of claim 12, wherein:  
the intermediary color profile is a CIELAB color profile or a CIEXYZ color profile.

14. (Previously Presented) The apparatus of claim 8, wherein the source and  
destination rendering intents are the same rendering intents, further comprising:  
means for modifying the color components of the intermediary data such that only  
grayscale colors remain, before transforming the intermediary data.

15. (Previously Presented) A computer program product, tangibly embodied in a  
computer-readable medium, for transforming data from a source device color space to a  
destination device color space, wherein the source device is associated with a source device color  
profile and the destination device is associated with a destination device color profile, the  
product comprising instructions operable to cause a processor to:

transform data from the source device color space to an intermediary color space  
associated with an intermediary color profile using the source device color profile, a source  
rendering intent, and the intermediary color profile, producing intermediary data, such that the

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source rendering intent determines a method of mapping colors from the source device color space to the intermediary color space; and

transform the intermediary data from the intermediary color space to the destination device color space using the intermediary color profile, a destination rendering intent, and the destination device color profile, such that the destination rendering intent determines a second method of mapping colors from the intermediary color space to the destination device color space.

16. (Previously Presented) The computer program product of claim 15, wherein the source and destination rendering intents are different rendering intents.

17. (Previously Presented) The computer program product of claim 16, wherein:  
the source device is a printing press to be emulated; and  
the destination device is a proofing printer to generate the output of the emulation.

18. (Previously Presented) The computer program product of claim 17, further comprising instructions to:  
receive the data as an output of a graphic arts application.

19. (Previously Presented) The computer program product of claim 17, wherein:  
the source rendering intent is a colorimetric rendering intent; and  
the destination rendering intent is a perceptual rendering intent.

20. (Previously Presented) The computer program product of claim 19, wherein:  
the intermediary color profile is a CIELAB color profile or a CIEXYZ color profile.

21. (Previously Presented) The computer program product of claim 15, wherein the source and destination rendering intents are the same rendering intents, further comprising instructions to:

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modify the color components of the intermediary data such that only grayscale colors remain, before transforming the intermediary data.

22 – 24. (Canceled)

25. (Previously Presented) The method of claim 7, wherein the intermediary color space is the CIELAB color space; and modifying the color components of the intermediary data such that only grayscale colors remain comprises setting the color components A and B to zero.

26. (Previously Presented) The method of claim 7, wherein the intermediary color space is the CIEXYZ color space; and modifying the color components of the intermediary data such that only grayscale colors remain comprises setting the values X, Y, and Z to values representing only grayscale colors.

27. (Previously Presented) The apparatus of claim 14, wherein the intermediary color space is the CIELAB color space; and means for modifying the color components of the intermediary data such that only grayscale colors remain comprises means for setting the color components A and B to zero.

28. (Previously Presented) The apparatus of claim 14, wherein the intermediary color space is the CIEXYZ color space; and means for modifying the color components of the intermediary data such that only grayscale colors remain comprises means for setting the values X, Y, and Z to values representing only grayscale colors.

29. (Previously Presented) The computer program product of claim 21, wherein the intermediary color space is the CIELAB color space; and modifying the color components of the intermediary data such that only grayscale colors remain comprises setting the color components A and B to zero.

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30. (Previously Presented) The computer program product of claim 21, wherein the intermediary color space is the CIEXYZ color space; and  
modifying the color components of the intermediary data such that only grayscale colors remain comprises setting the values X, Y, and Z to values representing only grayscale colors.